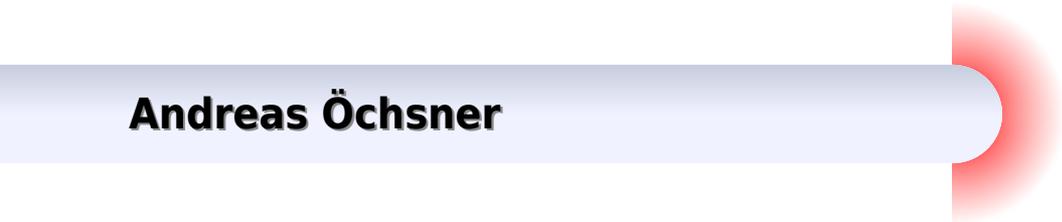


Scania Electrical

Andreas Öchsner



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The On-line Electric Vehicle Nam P. Suh, Dong Ho Cho, 2017-04-04 This book details the design and technology of the on line electric vehicle OLEV system and its enabling wireless power transfer technology the shaped magnetic field in resonance SMFIR The text shows how OLEV systems can achieve their three linked important goals reduction of CO2 produced by ground transportation improved energy efficiency of ground transportation and contribution to the amelioration or prevention of climate change and global warming SMFIR provides power to the OLEV by wireless transmission from underground cables using an alternating magnetic field and the reader learns how this is done This cable network will in future be part of any local smart grid for energy supply and use thereby exploiting local and renewable energy generation to further its aims In addition to the technical details involved with design and realization of a fleet of vehicles combined with extensive subsurface charging infrastructure practical issues such as those involved with pedestrian safety are considered Furthermore the benefits of reductions in harmful emissions without recourse to large banks of batteries are made apparent Importantly the use of Professor Suh s axiomatic design paradigm enables such a complicated transportation system to be developed at reasonable cost and delivered on time The book covers both the detailed design and the relevant systems engineering knowledge and draws on experience gained in the successful implementation of OLEV systems in four Korean cities The introduction to axiomatic design and the in depth discussion of system and technology development provided by *The On line Electric Vehicle* is instructive to graduate students in electrical mechanical and transportation engineering and will help engineers and designers to master the efficient timely and to cost implementation of large scale networked systems Managers responsible for the running of large transportation infrastructure projects and concerned with technology management more generally will also find much to interest them in this book

The Proceedings of the 11th Frontier Academic Forum of Electrical Engineering (FAFEE2024) Qingxin Yang, Jian Li, 2024-12-04 This book contains the original and refereed research papers presented at the 11th Frontier Academic Forum of Electrical Engineering FAFEE 2024 held in Chongqing China Topics covered include Power System and New Energy Motors and Systems Power Electronics and Electrical Drives High Voltage and Discharge Electrical Energy Storage and Application New Electrical Materials Advanced Electromagnetic Technology The papers share the latest findings in the field of electrical engineering making the book a valuable asset for researchers engineers and university students etc

The Electrical Engineer, 1905 *The Greening of the Automotive Industry* G. Calabrese, 2016-04-12 An examination of the greening of the automotive industry by the path dependence of countries and carmakers trajectories Three sources of path dependency can be detected business models consumer attitudes and policy regulations The automobile is changing and the race towards alternative driving systems has started

Collaborative Research Advancing Engineering Solutions for Real-World Challenges 3 Andreas Öchsner, 2026-01-21 This book presents the research outcomes from cooperative projects with industrial partners It

showcases the practical relevance of the research which features the knowledge exchange The papers cover a wide range of engineering disciplines highlighting the impact of these collaborations in addressing real world challenges and advancing technological developments

Design, Modulation, and Control of Battery-Integrated Modular Multilevel Converters for Automotive Applications Arvind Balachandran, 2025-03-20

A critical component of a battery electric vehicle BEV is the battery pack which has many series and parallel connected electrochemical cells The total power energy delivered and lifetime of the battery pack are limited by the weakest cell in the pack Battery integrated modular multilevel converters BI MMC can overcome this limitation by increasing cell level control BI MMCs have several series connected DC to AC converters with a battery module having a few series and parallel connected cells called submodules SM The research in this thesis focuses on the design modulation and control of BI MMCs The efficiency and adaptability of five basic BI MMC topologies with half bridge and full bridge SMs across three main system configurations are presented Full bridge topologies offer high efficiency some even higher than the state of the art SiC two level inverter However adapting them to BEVs requires significant architectural modifications to the BEV s electrical system The half bridge topologies require fewer architectural modifications for adaption into the BEVs However they have lower efficiency and require a larger number of SMs which increases the cost The efficiency is increased with six phase system configurations but at the cost of more SMs than three phase system configurations Another aspect of adaptability is the DC charging capabilities of BI MMCs The maximum DC charging power of the BI MMCs with the same SM semiconductor losses as during traction is derived and results show that most BI MMCs have a maximum DC charging power of about 1MW Key design parameters that affect the efficiency and cost of BI MMCs are identified They are the number of series connected cells in an SM SM DC link capacitor energy and MOSFET switching frequency BI MMCs with five to seven series connected cells per SM have the highest efficiency at an average power of 100 kW and considering phase shifted carrier based modulation Selecting the MOSFET switching frequency close to the resonant frequency of the SM DC link capacitors and the SM battery modules decreases the total efficiency Increasing or decreasing the MOSFET switching frequency increases the efficiency but affects the loss distribution between the SM DC link capacitors and the SM battery modules BI MMCs with nearest level modulation NLM have higher efficiencies than phase shifted carrier based modulation and the SiC two level inverter However using NLM with low frequency sort and select inter SM balancing methods sNLM results in an uneven distribution of battery losses among the SMs which may impact the thermal design Using NLM with cyclic submodule duty cycle rotation at the fundamental frequency gives higher efficiencies than sNLM and an even distribution of battery losses among the SMs Reconstruction of converter reference signals with a higher sample frequency at the submodule level can be used to adapt distributed control architecture to BI MMCs The advantage is the low communication burden between the central and the SM control units Furthermore the accuracy of the SM battery currents over one fundamental period is improved and the output distortion is

low The Electrical Review ,1906 *Electrical Times ...* ,1920 *Jane's All the World's Aircraft* ,1975 *Understanding Strategic Management* Anthony E. Henry, *The Motor Car Journal* ,1903 **Electrical Installation Record** ,1922 Engineering ,1883 **Diesel Engineering & Gas Turbines** ,1978 Sustainability Leadership Henrik Henriksson, Elaine Weidman Grunewald, 2020-09-22 As CEOs and business leaders navigate a world of complex global challenges sustainability is no longer optional but a business imperative In this book two sustainability leaders with decades of experience Henrik Henriksson CEO of Scania and Elaine Weidman Grunewald Co founder of the AI Sustainability Center and former Chief Sustainability Public Affairs Officer at Ericsson offer a simple but powerful three step model for leading an organization on a sustainability transformation journey that aims at big audacious world changing goals Honest about the dilemmas but bullish on the opportunities the authors advise leaders on how to accelerate sustainability in their organizations told through a Swedish lens where the country s values and culture permeate the boardroom and the C suite bringing a unique clarity and conviction to leading with integrity In practical insights gleaned from the authors own experience the book takes leaders through the three phases of sustainability leadership from establishing a solid foundation rooted in purpose culture values principles and consistent credible leadership to integrating sustainability into the core business and then to executing a vision that not only shifts the direction of the company but can change an entire industry and even the world Throughout the book more than 25 interviews with other leading CEOs of Swedish companies as well as successful start ups investors economists and other experts illuminate the path to sustainability leadership from different perspectives These are complemented by case studies describing how companies got it right or turned themselves around after getting it very very wrong With this hands on insiders guide CEOs and C suite leaders can take sustainability to the next level This is the encouragement and inspiration business leaders need to move past incremental improvement at a time when exponential world changing action is more urgent than ever The Road to Zero Emissions Dennis Evans, Des Evans, Alistair Williamson, 2020-09-10 The transport industry has an important role to play in addressing climate change and the environmental challenges facing governments businesses and individuals Achieving net zero emissions by 2050 will require this sector which is a large contributor of emissions to innovate adapt and drive positive change New technologies including batteries and alternative fuels will all be significant as will developing different approaches and outlooks The Road to Zero Emissions is the comprehensive guide for those in the transport industry to understanding what can and is being done to tackle climate change Through examining established companies and new entrants in the automotive space readers are provided with examples of the importance of infrastructure business innovation and financing for the future In addition to this the role of governments in establishing policies such as zero emission zones is also discussed Progressing towards zero emissions requires immediate change and this book will start you on the journey **Engineering Materials and Design** ,1978 Electrical Record and Buyer's Reference ,1922 **Electric Railway Motors** Nelson William Perry, 1894

Standard Daily Trade Service ,1919

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